

**To:** CN=Rick Wilkin/OU=ADA/O=USEPA/C=US@EPA[]  
**Cc:** CN=Ann Keeley/OU=ADA/O=USEPA/C=US@EPA;CN=David Jewett/OU=ADA/O=USEPA/C=US@EPA;CN=Dominic Digiulio/OU=ADA/O=USEPA/C=US@EPA;CN=Holly Ferguson/OU=CI/O=USEPA/C=US@EPA;CN=Lauren Drees/OU=CI/O=USEPA/C=US@EPA[]; N=David Jewett/OU=ADA/O=USEPA/C=US@EPA;CN=Dominic Digiulio/OU=ADA/O=USEPA/C=US@EPA;CN=Holly Ferguson/OU=CI/O=USEPA/C=US@EPA;CN=Lauren Drees/OU=CI/O=USEPA/C=US@EPA[]; N=Dominic Digiulio/OU=ADA/O=USEPA/C=US@EPA;CN=Holly Ferguson/OU=CI/O=USEPA/C=US@EPA;CN=Lauren Drees/OU=CI/O=USEPA/C=US@EPA[]; N=Holly Ferguson/OU=CI/O=USEPA/C=US@EPA;CN=Lauren Drees/OU=CI/O=USEPA/C=US@EPA[]; N=Lauren Drees/OU=CI/O=USEPA/C=US@EPA[]  
**Bcc:** []  
**From:** CN=Steve Vandegrift/OU=ADA/O=USEPA/C=US  
**Sent:** Mon 7/23/2012 7:36:41 PM  
**Subject:** Follow up to PI response to Pavillion Phase V ADQ  
Pavillion Phase V ADQ report\_rtw 7-22-2012.docx  
PhaseV QAQC7-22-2012 v1.docx  
Database 'LIVE QLOG NRMRL', View 'QA Reviews - by TLP', Document 'Phase V ADQ for Ground-Water Investigation in Pavillion, Wyoming'

Rick-

I have reviewed your responses to the ADQ and the summary spreadsheet as it relates to the issues identified in the ADQ and have the following comments. See the attached ADQ report for a description of the Observations.

1. Observation #2c: Dissolved Ag does not require the K2 flag. This only affects the total Ag ( digested samples).
2. Observation #3: The K2 flag was applied appropriately in most cases, but some were not included:  
 EPAMW01-0412-4: 2 BE, Tri- and Tetraethylene glycol need K2 flags  
 EPAMW01-0412: 2 BE, Tri- and Tetraethylene glycol need K2 flags  
 EPAMW01d-0412: Trichloroethylene glycol needs K2 flag
3. Observation #11a: Shaw re-issued the reports today.
4. Observation #12: This Observation applies to not only the Total Metals but also the Dissolved Metals (this was overlooked in the audit). Dissolved Cd results should also be Flagged K3 and the J2 flag applies to the dissolved counterparts of the metals listed.

It was also noted in the Metals worksheet, columns DL and DN, that the headers should be for ICP-MS QC, not ICP-OES QC.

5. Observation #13: It was noted that the recommendation for flagging total metals with J2 was not done. This may be determined at higher level reviews to be required.
6. Observation #14: There are some issues that need followed-up with the Las Vegas lab. I will send you a list to forward to the lab.

Steve

Steve Vandegrift, QA Manager  
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 NRMRL/ORD/USEPA

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To: Steve Vandegrift/ADA/USEPA/US@EPA  
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Date: 07/22/2012 05:13 PM  
Subject: Re: Quality Assurance Review for Phase V ADQ for Ground-Water Investigation in Pavillion, Wyoming

Hi Steve - ADQ response and revised QA/QC Appendix are attached.

The L:\ drive contains the most recent files and the revised summary data spreadsheet (v2). An Archive folder was created and it now contains previous review versions of the QA/QC Appendix and the summary spreadsheet.

Steve - I would like to discuss with you about contacting the NERL/LV lab to request additional information as described in the ADQ.

Thanks,  
Rick

=====  
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Cc: Steve Vandegrift/ADA/USEPA/US@EPA  
Date: 07/19/2012 07:13 PM  
Subject: Quality Assurance Review for Phase V ADQ for Ground-Water Investigation in Pavillion, Wyoming

Below is a link to the Quality Assurance Review form.

Would have been copied to: Steve Vandegrift

